

~~CONFIDENTIAL~~

P-W

sl

COUNTY Yavapai AREA 10 mi NE Cottonwood LEASE NO. Crary Fee

WELL NAME Yucca Petroleum Company Inc. Crary

LOCATION NE/4 SW/4 SEC 5 TWP 17N RANGE 4E FOOTAGE 1980 FSL 1980 FWL
 Surveyor USGS Datum STATUS PSA TOTAL 1661'
 ELEV 4376 GR 4386 KB SPUD DATE 10-9-64 COMP. DATE 10-30-64 DEPTH 1663' / log
4386 / Toy Butte Quad CED
 CONTRACTOR O'Donnell and Ewing, Inc.

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>10 3/4</u>	<u>108</u>	<u>100 SX</u>		<u>X</u>
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Spud in Supai				Much of hole drilled with air with no return/samples
Miss	644			
Base Devonian	1303			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IE; Density Log			SAMPLE DESCRP.
			SAMPLE NO. <u>1289*</u>
			CORE ANALYSIS
			DSTs
			*Tucson 2008

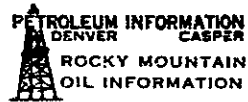
REMARKS	APP. TO PLUG
	PLUGGING REP.
	COMP. REPORT <u>X</u>

WATER WELL ACCEPTED BY G. C. Crary, P. O. Box 588, Sedona, AZ

BOND CO. <u>Reliance Insurance Company</u>	BOND NO. <u>B25-88-82</u>
BOND AMT. \$ <u>10,000</u>	DATE
CANCELLED <u>10-4-65</u>	ORGANIZATION REPORT <u>8-31-64</u>
FILING RECEIPT <u>9390</u>	LOC. PLAT <u>X</u> WELL BOOK <u>X</u> PLAT BOOK <u>X</u>
API NO.	DATE ISSUED <u>10-7-64</u> DEDICATION <u>E/2 SW/4</u>

PERMIT NUMBER 293

293
ARIZONA
YAVAPAI CO.
WILDCAT (W)



Twp 17n-4e
Section 5
ne SW
1980 n/s 1980 e/w

OPR: Yucca Pet

WELL #: 1 Crary-Fee

ELEV: 4376 Gr
TOPS: Log-Sample

Mississippian 644
Granite 1655

DSTS. & CORES:
Crd 1655-60, rec 4
granite.

SPUD: 10-9-64 COMPL: 11-4-64
TD: 1660 PB:
CSG: 10-3/4" @ 98 w/112

PERF:

PROD. ZONE:

INIT. PROD: D&A

Contr: O'Donnell-Ewing

ARIZ-467111

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☐ Dry ☒

DESCRIPTION OF WELL AND LEASE

Operator Yucca Pet. Co. Address Suite 11213800 N Central Phoenix
Federal, State or Indian Lease Number or name of lessor if fee lease CRAY G.C. Well Number 1 Field & Reservoir
Location NE-SW-SEC-5-17N 4E County YAVAPAI
Sec. TWP-Range or Block & Survey

Date spudded 10-9-64 Date total depth reached 10-30-64 Date completed, ready to produce
Elevation (DF, RKB, RT or Gr.) 4386 feet Elevation of casing hd. flange 4375 feet

Total depth 1661 1/2 ft P.B.T.D. Single, dual or triple completion? NONE If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion NONE Rotary tools used (interval) START TO FINISH Cable tools used (interval) NONE

Was this well directionally drilled? NO Was directional survey made? 1/4 @ 1000 Was copy of directional survey filed? ? Date filed ?

Type of electrical or other logs run (check logs filed with the commission) INDUCTION-FLUORESCENCE GAMMA RAY Date filed ?

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
<u>Surface</u>	<u>15"</u>	<u>10 3/4</u>	<u>32.75</u>	<u>108</u>	<u>100</u>	<u>NONE</u>

TUBING RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)

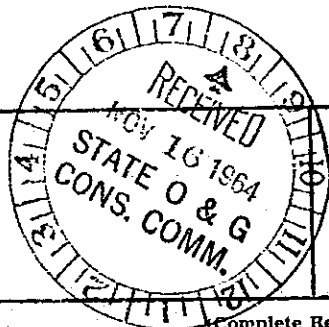
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Dir. of Supt. Prod. Supt. of the Yucca Pet. Co. Donnell & Ewing (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

11-12-64
Date

N.B. (Bert) McCormack
Signature

Permit No. 293

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4
File One Copy

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED					
Formation	Top	Bottom	Description*		
			(Spud in Supai formation)		
Top Miss			→ 644'		
Base Devonian			—		
TD			→ 11069		

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

Form No. 4

To: The State of Arizona
Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

This is to advise you that I accept the abandoned wildcat well, known as the Yucca Petroleum-Crary Fee #1

located on the NE/4SW/4 1/4-1/4 of Section 5,

Township 17N, Range 4E, County of Yavapai,
Arizona, as a water well to be used for domestic purposes.

Further, I accept full responsibility for the proper maintenance and use of the above well in full compliance with the applicable provisions of Arizona Revised Statutes, and with the Rules and Regulations adopted by the Oil and Gas Conservation Commission. I understand that I am now responsible for the final plugging of this well.

Signature

Street

City and State

G.C. Crary G.C. CRARY
P.O. Box 588
Sedona Arizona

State of Arizona
County of Cochise

On this, the 3rd day of Nov., 1964, before me, _____

Marvin Black, the undersigned officer, personally appeared

G.C. Crary, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purpose therein contained.

In witness whereof I hereunto set my hand and official seal.

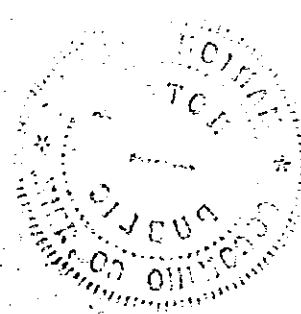
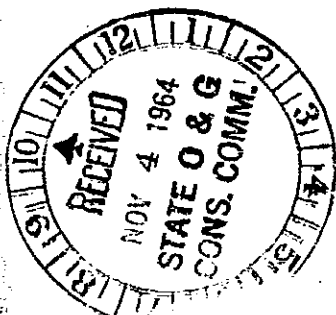
Notary Public

My Commission expires

My Commission Expires May 7, 1966

PERMIT NO. 293

State of Arizona
Oil & Gas Conservation Commission
WATER WELL ACCEPTANCE FORM
Form No. 26 File one copy



P. O. BOX 593

YAPUNCICH, SANDERSON & BROWN LABORATORIES
BILLINGS, MONTANA

13 N. 32ND ST.

LABORATORY REPORT

Lab. No. 7781

To OIL & GAS CONSERVATION COMMISSION, STATE OF ARIZONA

Date 12-29-66

Address ROOM 202, 1624 WEST ADAMS, PHOENIX, ARIZONA

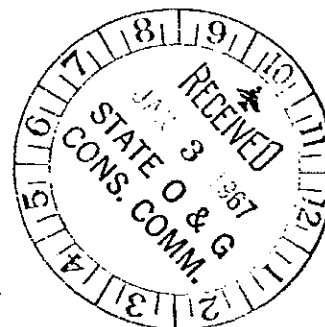
IDENTIFICATION OF LIQUID

WILDCAT, YAVAPAI COUNTY, ARIZONA
WELL NO. 1 CRARY FEE

NE SW 5-17N-4E

YUCCA PETROLEUM CO. - OPERATOR

SAMPLE SUBMITTED 12-23-66



API GRAVITY @ 60°F - - - - - 34.3°
VISCOSITY @ 100°F, CENTISTOKES - - - - - 5.08
POUR POINT - - - - - -20°F
SULFUR, % BY WEIGHT - - - - - <0.10%
ENGLER DISTILLATION @ 27.10 IN. HG

IBP - 394°F	50% - 532°F
5% - 427	60% - 550
10% - 448	70% - 577
20% - 474	80% - 622
30% - 494	90% - 671
40% - 515	95% - 707

ENDPOINT - 708

% RECOVERED - 98.0

% LOSS - 0

% RESIDUE - 2.0

NOTE: MEETS SPECIFICATIONS (EXCEPT FOR COLOR) OF NO. 2
DIESEL FUEL. NO INDICATION OF CRUDE OIL PRESENT.

CABLE ADDRESS "SAYBOLT"
ALL CODES USED - SPECIFY

SPECIALISTS IN TANK CALIBRATING
INSPECTION OF BULK CARGOES,
PETROLEUM AND OTHER LIQUIDS,
LICENSED WEIGHERS AND RAMP-
LERS OF VEGETABLE OILS, WAXES
AND FATS.

LOS ANGELES AREA -
SPRUCE 5-1153
HARBOR AREA - TERMINALS 5-8383

E. W. SAYBOLT & CO., INC.

JOS. H. MCCABE JOS. H. MCCABE, JR.
APPROVED AND LICENSED BY
THE NEW YORK PRODUCE EXCHANGE
INSPECTORS OF PETROLEUM

LOS ANGELES AREA
P. O. BOX 1146 - 115 AVALON BLVD.
WILMINGTON, CALIF. 90746

LABORATORIES

KENILWORTH, N. J.
PHILADELPHIA, PA.
HAMMOND, IND.
NEW ORLEANS, LA.
CORPUS CHRISTI, TEX.
HOUSTON, TEX.
WILMINGTON, CALIF.
TAMPECO, MEX.
SEATTLE, WASH.
PORTLAND, ORE.
CHICAGO, ILL.
BOSTON, MASS.
WEST HAVEN, CONN.

SERVING THE PETROLEUM INDUSTRY FOR OVER 60 YEARS
DEPENDABLE INSPECTION SERVICE AT ALL PORTS ON THE ATLANTIC, GULF AND PACIFIC COASTS

LABORATORY ANALYSIS REPORT

SAMPLE DESIGNATED BY CLIENT AS **CRUDE OIL**

NOVEMBER 8, 1966

FROM

SUBMITTED BY **JAY M. SHIELDS 11/2/66**

FOR

ANALYSIS

THIS LABORATORY REPORT MAY NOT BE PUBLISHED OR USED EXCEPT IN FULL. SHALL NOT BE USED FOR ADVERTISING OR IN CONNECTION WITH ADVERTISING OF
ANY KIND UNLESS PERMISSION FOR THE PUBLISHING OR ADVERTISING OF AN APPROVED ABSTRACT HAS BEEN OBTAINED, IN WRITING FROM E. W. SAYBOLT & CO., INC.

MARKED: CARRY WELL-ARIZONA

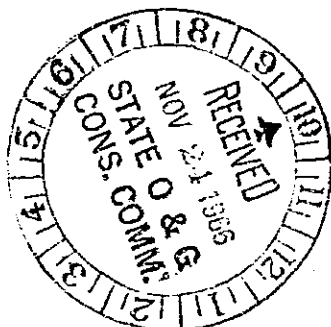
GRAVITY, API @ 60°F.
POUR POINT, °F.
SULFUR, %
WATER (SALT CONTENT)
DISTILLATION: °F. 1BP

5%
10%
20%
30%
40%
50%
60%
70%
80%
90%

CRACKED
RECOVERY, %

34.2
-30
0.29
99.98 PPM AS NaCl
390
429
452
484
504
520
536
556
582
624
638
692
92.0 CRACKED

293



E. W. SAYBOLT & CO., INC.

R. U. Clayton

DEPUTY INSPECTOR OF PETROLEUM
APPROVED BY NEW YORK PRODUCE EXCHANGE

SEP 12 1964

2014

STATE OF ARIZONA
County of Yavapai

} ss. 10724

I do hereby certify that the within instrument was filed and recorded at request of
Favour & Quail on Sept 10 A.D. 1964
at 3:05 o'clock P.M., Book 336 Official Records, Page 210-211

INDEXED

Records of Yavapai County, Arizona.

WITNESS my hand and official seal the day and year first above written.

PHOTOSTATED

FRANK C. BAUER, County Recorder

By Hermine Trumbach Deputy

PAGED

DESIGNATION OF OPERATOR

KNOW ALL MEN BY THESE PRESENTS:

That C. J. Van Scoter, lessee from Gerald C. Crary and Phyllis F. Crary, husband and wife, and Bert W. Holloway and Toni Holloway, husband and wife, under Oil and Gas Lease dated June 30, 1964, recorded on August 31, 1964, in Book 335 of Official Records, pages 80-83, inclusive, in the office of the County Recorder of Yavapai County, Arizona, by Assignment dated August 27, 1964, recorded on August 31, 1964, in Book 335 of Official Records, pages 84-85, inclusive, in the office of the County Recorder of Yavapai County, Arizona, hereby designates Yucca Petroleum, Inc., an Arizona corporation, as his operator and local agent, with full authority to act in his behalf in complying with the terms of said lease and to whom may be given written or oral instructions in securing compliance with the terms of said lease with respect to the premises embraced by said lease, situate in Yavapai County, Arizona, described as follows, to wit:

The Southwest Quarter (SW $\frac{1}{4}$) of
Section 5, Township 17 North,
Range 4 East, G&SRB&M.

Operator shall have full and exclusive control and supervision of all development and operation of said land and lease for the production of oil and gas, but it is understood

on 328 up 210



that this designation of operator does not relieve lessee of the responsibility of compliance with the terms of said lease, nor does it constitute an assignment of any interest in the lease.

In Witness Whereof lessee has set his hand this 8th day of September, 1964.

C. J. Van Scoter
C. J. Van Scoter

STATE OF NEW YORK }
County of Chautauque } ss.

On this, the 8th day of September, 1964, before me, the undersigned Notary Public, personally appeared C. J. Van Scoter, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed the same for the purpose therein contained.

In Witness Whereof, I have hereunto set my hand and official seal.

Flora B. Hunt
Notary Public

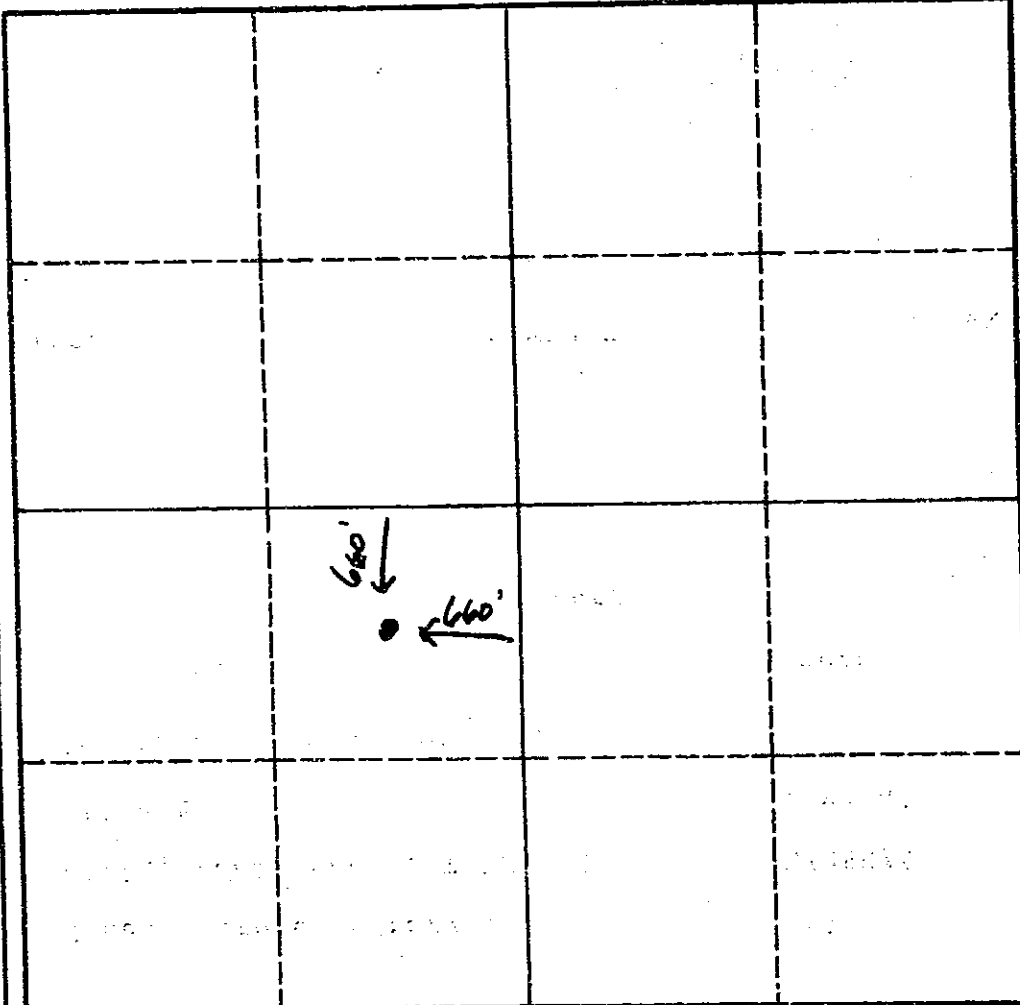
My Commission expires: _____



NOTARY PUBLIC Reg. No. 653
Notary for the State of New York
Qualified in Chautauque County
My Commission Expires 12-19-65

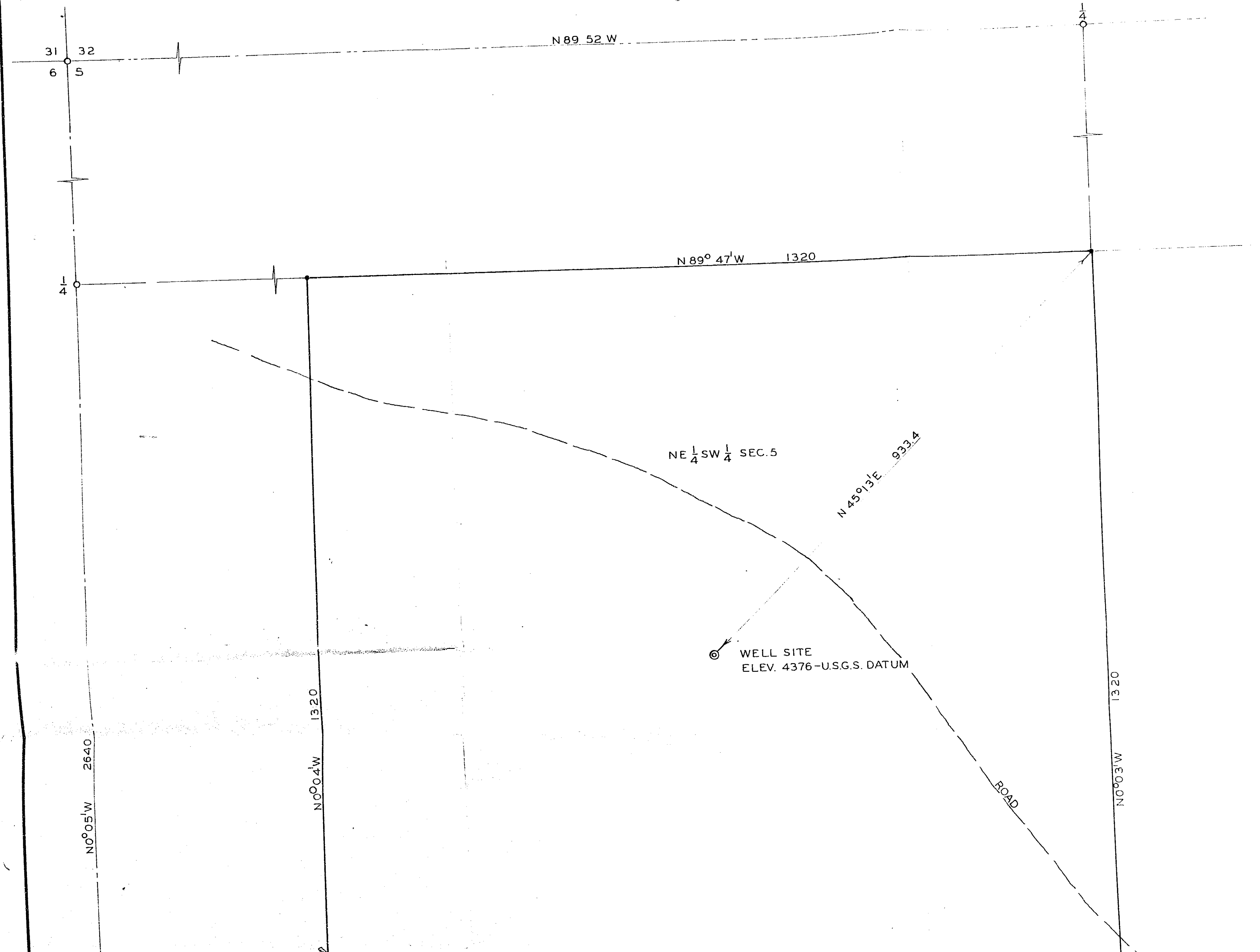
APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER		
APPLICATION TO DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RE-ENTER OLD WELL <input type="checkbox"/>		
NAME OF COMPANY OR OPERATOR		DATE
Yucca Petroleum Co. Inc		
Address	City	State
3800 N. Central,	Phoenix,	Arizona
DESCRIPTION OF WELL AND LEASE		
Federal, State or Indian Lease Number or name of lessor, if fee lease	Well number	Elevation (ground)
Yucca Petroleum-Crary Fee	#1	4376
Well location and acreage dedicated to the well (give footage from section lines)		Section--township--range or block & survey
1980 S. 1980 W. 660 N. 660 W. Sec 5, T17N, R4E		E/2SW/4
Field & reservoir (if wildcat, so state)	County	
Wildcat	Yavapai	
Distance, in miles, and direction from nearest town or post office		
10 miles NE Cottonwood		
Nearest distance from proposed location to property or lease line:		Distance from proposed location to nearest drilling, completed or applied--for well on the same lease:
660 feet		none feet
Proposed depth:	Rotary or cable tools	Approx. date work will start
3000'	rotary	Oct. 10, 1964
Number of acres in lease:		Number of wells on lease, including this well, completed in or drilling to this reservoir:
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
Status and amount of bond	Organization Report On file	Filing Fee of \$25.00 Attached
Blanket	On file	Attached
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)		
<p>Permit delivered to Jack Ewing 10-7-64</p>		
*Fill in Proposed Casing Program on reverse side		
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the President of the Yucca Petroleum Co. Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.		
Signature		
October 2, 1964		
Date		
Permit Number: 293	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION	
Approval Date: 10-7-64	Application to Drill, Deepen or Plug Back and Plat	
Approved By: John Vannister	File Two Copies	
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.		Form No. 3
See instruction on Reverse Side of Form		

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐
5. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation _____
6. If the answer to question two is "no," list all the owners and their respective interests below:

Owner Yucca Petroleum	Land Description E/2SW/4 5, 17N, 4E
<div style="display: flex; justify-content: space-between;"> <div style="width: 55%;">  </div> <div style="width: 40%; padding-left: 10px;"> <p>CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p><i>Mike O'Donnell</i> Name</p> <p>President Position</p> <p>Yucca Petroleum Company</p> <p>Oct. 2, 1964 Date</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p> </div> </div>	

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10 3/4	32	1b E	Surface	300	300	150



N 89° 52' W

7N R4E

N 89° 47' W 1320

NE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC. 5

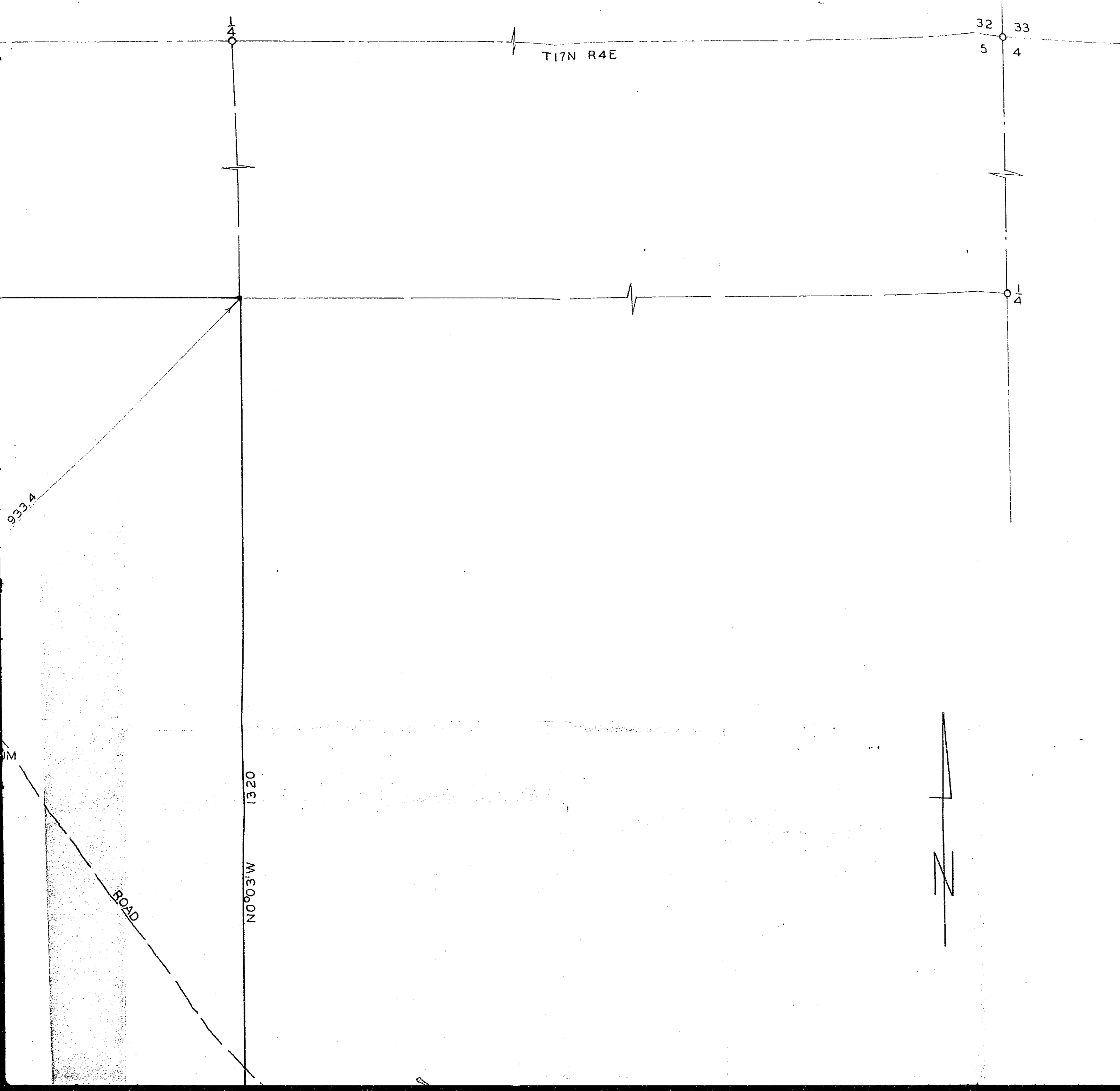
N 45° 13' E 933.4

WELL SITE
ELEV. 4376 - U.S.G.S. DATUM

ROAD

1320
N 0° 03' W

N



Petroleum
Society
T17N, R4E

NE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC. 5

N 45° 13' E 933.4



WELL SITE
ELEV. 4376 - U.S.G.S. DATUM

ROAD

N 0° 05' W 2640

N 0° 04' W 1320

N 0° 03' W 1320

N 89° 47' W 1319.6

6 5

4

SECTION 4 SEC 5

N 45° 14' E 93.14

WELL SITE
ELEV. 4376 - U.S.G.S. DATUM

0281

M. E. G. C. M.

N 89° 47' W 1319.6

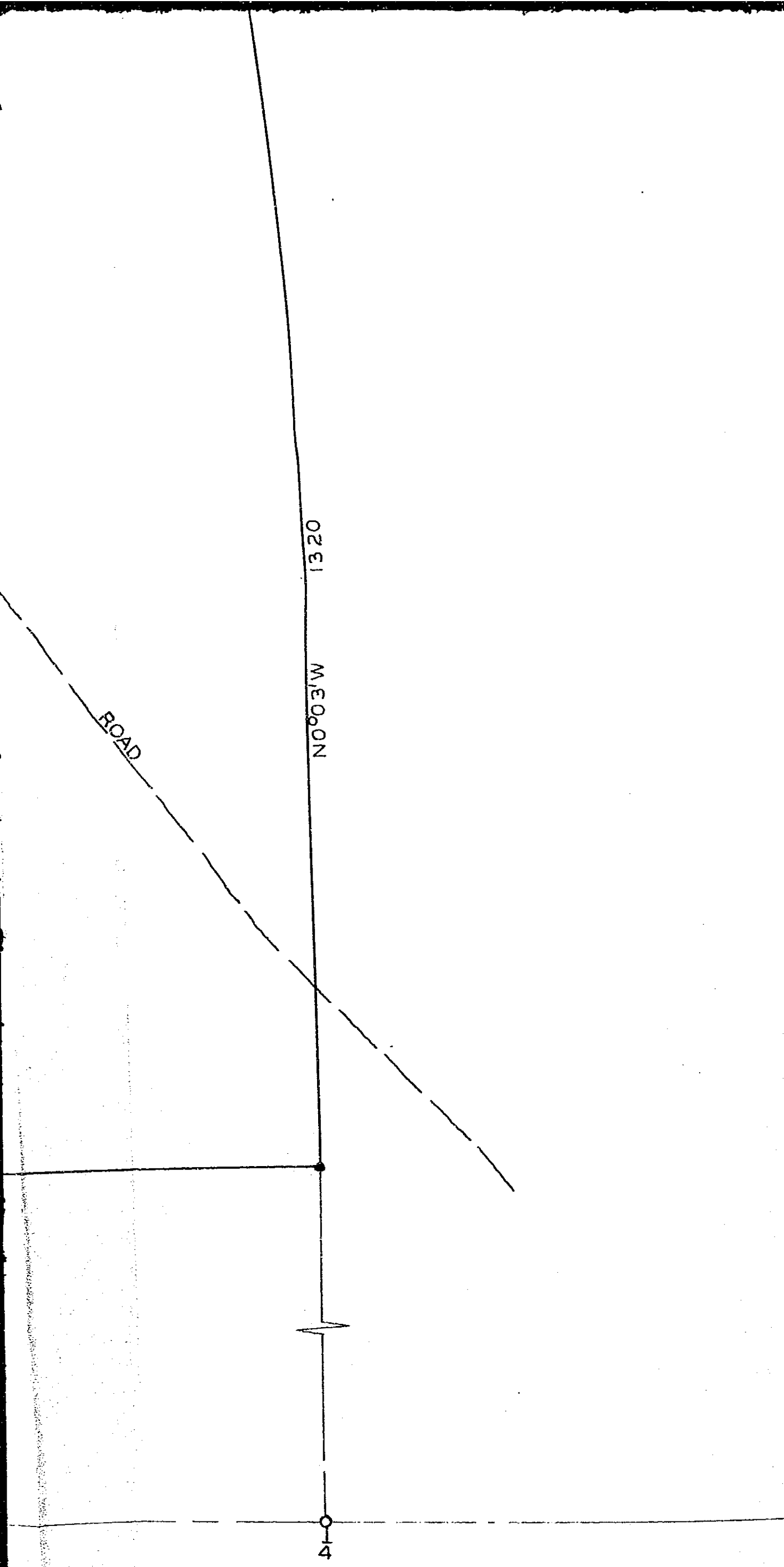
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REV. NO.	DATE	BY	REVISION

DATE	OCT 1 1964
SCALE	1" = 100'
DRAWN	G. C. B.
CHECKED	
APPROVED BY	

James H. Howard

OIL WELL LOCATION
Nº 1 CRARY
 YUGO-SLAVIA OIL FIELD
 DE 1 SW 1/4 OF SECTION 11 T14N R10E
 OF G. A. B. 13 S 11
 JAMES H. HOWARD & ASSOCIATES
 1000 P. O. BOX 1000
 CLEVELAND, OHIO 44101



OIL WELL LOCATION MAP

Nº 1 CRARY
YUCCA PETROLEUM INC.

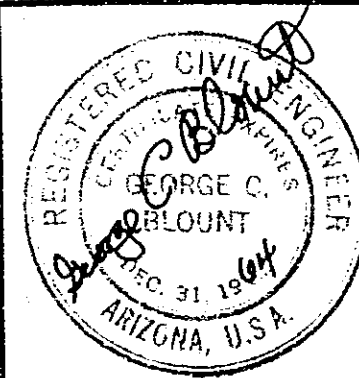
NE $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 5 T17N R4E
OF G.&S.R.B.&M.
YAVAPAI COUNTY ARIZONA

JOB NO.
4348

SHEET NO.

JAMES H. HOWARD & ASSOCIATES
CONSULTING ENGINEERS
LAND SURVEYORS
CLARKDALE, ARIZONA

DATE: OCT. 1 1964
SCALE: 1" = 100'
DRAWN: G.C.B.
CHECKED:
APPROVED BY:



REV. NO.	DATE	BY:	REVISION

CRARY
T17N, R4E

RELIANCE INSURANCE COMPANY

HEAD OFFICE, PHILADELPHIA, PENNSYLVANIA

POWER OF ATTORNEY

Know all men by these Presents, That the RELIANCE INSURANCE COMPANY, a corporation duly organized under the laws of the State of Pennsylvania, does hereby make, constitute and appoint George F. Dickinson of Phoenix, Arizona,

its true and lawful agent and Attorney-in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings, (except bonds guaranteeing the payment of principal and interest of notes, mortgage bonds and mortgages) in its business of guaranteeing the fidelity of persons holding places of public or private trust, and in the performance of contracts other than insurance policies, and executing and guaranteeing bonds or other undertakings required or permitted in all actions or proceedings, or by law required or permitted.

and to bind the RELIANCE INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the RELIANCE INSURANCE COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-fact may do in pursuance hereof.

This Power of Attorney is granted under and by authority of Article VII of the By-Laws of RELIANCE INSURANCE COMPANY which became effective May 11, 1962, reading as follows:

ARTICLE VII

Execution of Bonds and Undertakings

SECTION 1. The Board of Directors, the President, or any Vice-President or Assistant Vice-President shall have power and authority to: (a) appoint Attorneys-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and (b) to remove any such Attorney-in-Fact at any time and revoke the power and authority given to him.

SECTION 2. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

In Witness Whereof, the RELIANCE INSURANCE COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereto affixed.

This 23rd day of October, 1963.

RELIANCE INSURANCE COMPANY

(SEAL)

T. L. SEDWICK
Vice-President

STATE OF PENNSYLVANIA,
COUNTY OF PHILADELPHIA,

On this 23rd day of October, A.D. 1963, before the subscriber, a Notary Public of the State of Pennsylvania, in and for the County of Philadelphia, duly commissioned and qualified, came T. L. SEDWICK, Vice-President of the RELIANCE INSURANCE COMPANY, to me personally known to be the individual and officer described in, and who executed the preceding instrument, and he acknowledged the execution of the same, and, being by me duly sworn, deposed and saith, that he is the officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the corporate seal of said Company, and the said corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said corporation, and that Article VII Section 1 and 2 of the By-Laws of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.

(NOTARIAL SEAL)

JOSEPH A. KUCHENMEISTER
My Commission Expires January 29, 1967 Notary Public.

I, William F. Brunner, Resident Assistant Secretary of the RELIANCE INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by said RELIANCE INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this day of OCT 27 1964, A.D. 1964.



William F. Brunner
Resident Assistant Secretary

CANCELLED

BDE-1481 24 Oct 1960 (Cert. General)

63/75

DATE 10-4-65

BOND

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. B 25-88-82

That we: O'DONNELL and EWING INC.

of the County of: MARICOPA in the State of: ARIZONA

as principal, and RELiance INSURANCE COMPANY

of Philadelphia, Pennsylvania
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

NORTH EAST - SOUTH WEST SECTION #5 TOWNSHIP 17 NORTH RANGE 4 EAST,
(May be used as blanket bond or for single well)

YAVAPAI COUNTY, ARIZONA

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of TEN THOUSAND and no/100 DOLLARS

Witness our hands and seals, this Seventh day of OCTOBER 1964

O'DONNELL AND EWING INC.

x John R. Ewing, President
Principal

Witness our hands and seals, this Seventh day of OCTOBER 1964

RELiance INSURANCE COMPANY

George F. Dickinson Surety Attorney in fact

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date <u>10-7-64</u>
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
By: <u>John Lammeter</u>
Permit No. <u>293</u>

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2

O'Donnell and Ewing, Inc.

OIL PRODUCERS — DRILLING CONTRACTORS

Mike O'Donnell
John R. Ewing

265-1851

4800 NORTH CENTRAL AVENUE
SUITE 101
PHOENIX, ARIZONA 85012

September 27, 1967

Oil and Gas Conservation Commission
1624 West Adams
Phoenix, Arizona

Attention: Mr. John Bannister

Gentlemen:

As per your request, I submit the following information regarding Yucca Petroleum, Inc., #1 Crary.

We obtained an oil and gas lease dated June 30, 1964, covering the SW/4 of Section 5, Township 17 North, Range 4 East, Yavapai County, Arizona. We agreed to drill a well in the NE SW of Section 5 and escrowed \$4,000 against the commencing of a well within 180 days. We moved our rig to the location on October 8, 1964, and drilled to a depth of 815' by the 14th, at which time we encountered lost circulation. At this point we purchased some air compressors out of Canada and the rig was shut down from October 14 to 22, at which time we resumed drilling. On October 27, we had drilled to a depth of 1656' in granite and decided to diamond core. We cored 4' of solid granite and finished the well on October 29 at a total depth of 1660'.

There was a total of 166 actual rotating hours and the well complete, including location, surface pipe, drilling, coring, logging, plugging, etc., cost \$31,462.82.

Very truly yours,

O'DONNELL AND EWING, INC.

Mike O'Donnell

Mike O'Donnell

aw

Yapuncich - Sanderson & Brown

TELEPHONE 252-6325

P.O. BOX 593

LABORATORIES

13 N. 32nd ST.

Billings - Montana

January 9, 1967

Oil & Gas Conservation Commission
State of Arizona
1624 West Adams
Phoenix, Arizona 85007

Attn: Mr. John Bannister, Executive Secretary

Dear Mr. Bannister:

The following are the ASTM specifications for a No. 2 diesel fuel:

Flash Point	100°F or legal (min.)
Pour Point	20°F (max.)
B.S. & Water	0.10% (max.)
Carbon Residue on 10% of Bottoms	0.35% (max.)
Distillation, °F: 90% Point, max.	640°F
	min. 540°F

Saybolt Viscosity, secs.:	
Universal @ 100°F, max.	37.93
	min. 32.6

Kinematic Viscosity, centistokes:	
@ 100°F, max.	3.6
	min. 2.0

API Gravity, min.	30° @ 60°F
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Note: In Arizona a minimum gravity of 28° API is permissible.

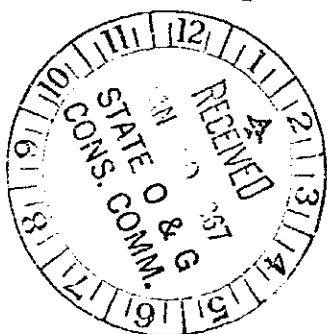
A residue is always obtained on an Engler distillation of gasolines or diesel fuels. It is not an indication of paraffin. The pour point is a better indicator of paraffin. The -20°F pour point indicates that the paraffin had been removed. Generally the straight run No. 2 diesel fuel has a pour point of about +25°F and cannot be used for cold weather operations.

Respectfully yours,

YAPUNCICH, SANDERSON & BROWN
LABORATORIES

Marlene Elis

Marlene Elis, Secretary



SPECIALIZING IN CORE, WATER, GAS, CRUDE OIL, REFINED PETROLEUM PRODUCTS, AND FIELD ENGINEERING SERVICES

January 6, 1967

Yapuncich, Sanderson & Brown Laboratories
P.O. Box 593
Billings, Montana

Re: Your Laboratory Report No. 7781
Our File 293

Gentlemen:

This will acknowledge receipt of the captioned lab report received by this office on January 3, 1967. Payment is in process.

This office would like to know what constitutes the 2% residue following your test. We are particularly interested in knowing if this could be parafin. Should this residue have been parafin would that be consistent with the specifications of #2 diesel fuel?

We would very much appreciate, in addition, your advising us of the specifications for #2 diesel fuel.

Your prompt response to these questions would be greatly appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr

January 3, 1967

Mr. Earl Huggins
P.O. Box 790
Sedona, Arizona

Dear Earl:

Attached please find xerox copy of the analysis of the fluid we recovered from the Yucca Petroleum #1 Crary well, located NE/4SW/4 S-17N-4E, Yavapai County.

You will noted that the fluid is identified primarily as #2 Diesel fuel with no indication of crude oil present.

I have check with the Driller of this well, i.e., O'Donnell and Ewing Drilling Company, and find they did slug the well with #2 Diesel fuel during drilling operations. Apparently what we got was a return of this fluid.

I wish I had better information for us. Let me take this opportunity to wish you a very happy and prosperous New Year.

Sincerely,

John Bannister
Executive Secretary
mr
enc

December 21, 1966

Yapuncich, Sanderson & Brown Laboratories
P.O. Box 593
Billings, Montana

Re: Liquid sample
Yucca Petroleum #1 Crary Fee well
NE SW 5-17N-4E, Yavapai County, Arizona
Our file 293

Gentlemen:

We are forwarding via air freight a liquid sample. Will you please report to this office a complete analysis of this sample, particularly with respect to any crude oil content.

Enclosed is a voucher form to be signed and returned to this office with duplicate invoice for your services.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

09570

COVER ONE SUBJECT ONLY IN EACH LETTER
THIS Rediform PRODUCT
FOR TYPEWRITER OR HAND USE

SPEEDIMEMO

TO	JOHN BANNISTER	DEPT.-LOCATION	1624 W. ADAMS PHOENIX
FROM	EARL HUGGINS	DEPT.-LOCATION	Box 790 SEDONA, ARIZ.
SUBJECT			DATE 11

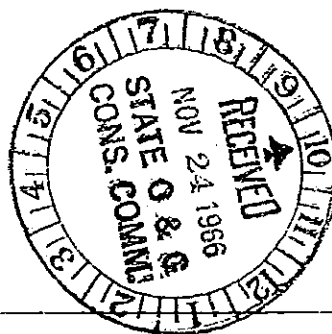
MESSAGE

DEAR JOHN:
FORGOT TO GIVE YOU THIS REPORT FROM
SAYBOLT. ENJOYED YOUR VISIT - DON'T WORRY ABOUT
THE SETBACK - THERE WILL BE A WAY. WILL
LET YOU KNOW AS SOON AS THINGS ARE
CLEANED UP & READY FOR ANOTHER TRY.
HAPPY THANKSGIVING! EARL HUGGINS

ORIGINATOR - DO NOT WRITE BELOW THIS LINE

SIGNED

REPLY:



DEPT.-LOCATION

SIGNED

DATE

SEND PARTS 1 AND 3 WITH CARBON INTACT - PART 3 WILL BE RETURNED WITH REPLY

SAMUEL P. GODDARD
GOVERNOR

LYNN LOCKHART
CHAIRMAN

R. KEITH WALDEN
VICE CHAIRMAN

ORRIS LEWIS
MEMBER

LUCIEN S. OWENS
MEMBER

GEORGE T. SILER
MEMBER



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1024 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-1181

JOHN BANNISTER
EXECUTIVE SECRETARY

J. R. SCURLOCK
PETROLEUM GEOLOGIST

July 25, 1966

Mr. Richard B. Canby
P.O. Box 302
Sedona, Arizona

Dear Mr. Canby:

The well to which you refer in your letter of July 8th is probably the Yucca Petroleum Co. #1 Crazy Egg, which is in the NE/4 SW/4 of Section 8, 17N-2E. Total depth of this well was 1697 feet. Abandoned October 30, 1964.

I have just talked to Mr. O'Donnell of Yucca Pet. Co. about your letter, and he informed me that he had observed the same show of oil-like substance while the well was drilling but that he did not make a drill stem test of the formation fluids nor did he have any of the "oil" analyzed. His thought was that the substance was probably crude oil of uncommercial quantities such as is commonly found in drilling, i.e., a slight show of

Neither the Bureau of Mines nor this office of the Oil and Gas Conservation Commission is equipped to make a chemical analysis of oil samples. In fact, no one here in Arizona is our knowledge, so this request is somewhat unusual. If you can collect enough of the oil (at least a quart of the substance is required) and want it analyzed for the analysis (the cost is about \$25 or \$30) you can ship a sample to:

Yapuncich, Sanderson, and Brown Laboratories
Box 693
Billings, Montana

They have done work for us before which has been quite satisfactory.

Let us know if we can help you further.

Yours truly,

James R. Scurlock

293



THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

July 19, 1966

June

Mr. Richard B. Canby
Box 302
Sedona, Arizona

Dear Mr. Canby:

Your letter to the U. S. Bureau of Mines regarding a petroleum occurrence has been forwarded to our offices.

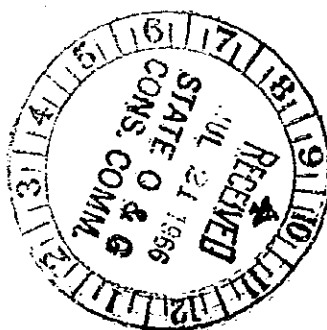
It is our opinion that this matter can best be handled through the Arizona Oil and Gas Conservation Commission in Phoenix. We are, then, forwarding your letter to them immediately.

Sincerely,

H. Wesley Peirce
Associate Geologist

HWP/r

cc: Mr. Jim Scurlock



July 6, 1966

U. S. BUREAU OF MINES

U.S. Bureau of Mines
Southwest Experiment Sta.
Univ. of Arizona

TUCSON, ARIZONA

Dear Sirs:

I understand that you identify minerals for outside parties and unfortunately I don't have a sample at the time because most of it evaporated away, but perhaps you can tell me something of what I have just through written correspondence.

A few days ago a friend of mine and I went to a water well and bailed out some water that was standing at about 700' below the surface. The well is 1660' deep and cased to the first 300'. The well is here in this Sedona country and was drilled two years ago. When it was logged one year later the sampler came up with a shiny coat of petroleum smelling substance on the outside. When my friend and I bailed out a water sample we got the same thing, petroleum droplets on the surface of the water, a shiny coat of petroleum on the outside of the can, and it had a odor of kerosene. That same night we went to check the film under a black light and found that most of it had evaporated.

If you have ever heard of a similar case perhaps you can explain just what kind of a petroleum this is before we try and send you a sealed sample of the highly evaporative substance. (please include the cost on examining a jar of water)

The slope of the land around the well is gently dipping down toward the SW. When drilled a air cavity was encountered and four 2500 horse power air compressors were brought in to blow the air and water back down the well, only to meet defeat. The pressure system apparently is very strong, and could easily be migrating the water and petroleum film from the NE to the SW.

Is it at all possible for you to tell what kind of petroleum this is, and if it is migrating from the NE what kind of a petroleum bed or pool it is coming from? Your examination of this situation would be greatly appreciated. Thank you kindly for your time and trouble, and please let me know if it will be necessary for a sample bottle of the water, and how much it would cost to be identified. Thank you again.

Sincerely yours,

Richard B. Canby
Richard B. Canby

Mr. Richard B. Canby
Box 302
Sedona, Arizona

*Send to the Arizona Bureau of Mines
Mamie*

*Answered 7-25-66
JES*

October 5, 1965

Reliance Insurance Companies
P.O. Box 3916
Phoenix, Arizona

Attention: Mr. George W. Dickinson, Bond Manager

Re: O'Donnell and Ewing Inc. - Bond B23 88 82

Gentlemen:

Under the captioned bond the only well drilled, the Yucca Petroleum Co. #1 Grady No. 1, located NE/4SW/4 S-17N-4E, Yavapai County, Arizona, was completed on October 30, 1964 and all our Rules and Regulations have been fully complied with.

Inasmuch as there are no outstanding obligations under this bond, this bond may now be terminated.

We have this date talked with the principal and they have advised it is their desire likewise that this bond be terminated.

Should you have any questions, would you please advise.

Yours very truly,

John Bannister
Executive Secretary
mr

cc: O'Donnell and Ewing Inc.
1121 Del Webb Bldg.
3800 N. Central Ave.
Phoenix, Arizona 85012



RELIANCE INSURANCE COMPANIES

ARIZONA SERVICE OFFICE, 12 LUHRS ARCADE, P. O. BOX 3916, PHOENIX, ARIZONA

TEL. 254-5991

September 23rd, 1965

Mr. John Bannister
Executive Secretary
STATE OF ARIZONA
Oil & Gas Conservation Commission
1624 West Adams - Room 202
Phoenix, Arizona

O'DONNELL and EWING INC. - Bond B 25 88 82
Effective October 7, 1964

Dear Mr. Bannister:

Confirming our telephone conversation this morning, I understand our bond is to be replaced by one from another Surety Company.

I would appreciate your advising me when the new bond has been filed and the date our liability is terminated.

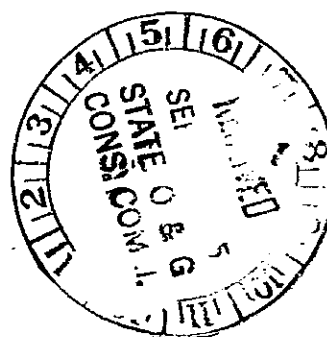
I would appreciate your confirmation as to the number of wells drilled under the Permit covered by our bond.

Yours truly

George F. Dickinson
George F. Dickinson
Bond Manager

GFD/cp

293 only



November 2, 1964

Mr. Bert McComack
P.O. Box 161
Cottonwood, Arizona

Re: Yucca Petroleum Company well, Permit 293

Dear Bert:

Pursuant to instructions received from Mike O'Donnell by telephone on Friday, October 30, we are enclosing three copies of the form for acceptance of a well for water well.

Will you please have this completed by Mr. Crary and return one copy to this office. The other two copies are for your records and Mr. Crary's.

Also, we are enclosing a copy of our Well Completion Report which should be completed at your earliest convenience and returned to this office.

In addition, we will need a copy of all logs, electrical, etc., taken by you on this well. This information should be filed with this Commission within 60 days of the completion of this well. If you desire, and so advise us, this information will remain confidential for six months.

If you have any question, or need any assistance, please advise.

Yours very truly,

John Bannister
Executive Secretary

on location
10-23-64

Drilling @ 1179 Ft

drilling with air (pressure approx 200#)

getting no returns

drilling at about 3 min per ft. rate

JRS

Mobile Phone Operator Flagstaff:
774-5922

yucca Pet

10-23-64

dlg with air at 1100'
making approx 500' per 24 hr

Air arrived on site approx 3 pm 10-22-64
- hit cavern - below 803' - getting no
sample return

Slope test 10-23-64 well off vertical 14°

10-26-64

call from Mike O:

Drilling @ 1541

plan to start coring @ 1660 - Will
take a 55' foot core.

